

**REMARKS**

Reconsideration and allowance of the subject application in view of the foregoing amendments and the following remarks is respectfully requested. Entry of this Amendment under Rule 116 is merited as it raises no new issues and requires no further search.

The Examiner's indication of allowable subject matter of claims 7-8, which are the only claims currently pending in the instant application, is noted with appreciation.

Allowable claim 7 has been rewritten in independent form including all limitations of base claim 1 and the intervening claims 3-6. Claim 8 has been revised to better define the claimed invention. No new matter has been introduced through the foregoing amendments.

Most notably, in rewritten claim 7, the language imported from claim 6 now reads as follows:

the cells are divided into groups of cells;  
a predetermined number of said pilot subcarriers are allocated for each cell,  
said predetermined number being generated by dividing the number of subcarriers  
by the number of cells;

**as to insufficient pilot subcarriers, part of said pilot subcarriers being  
allocated for each cell are allocated to the cells which have the same position  
in different groups;**

In other words, rewritten claim 7 now includes the *original* wordings (bold text) of claim 6 and, therefore, includes no new matter.

Claim 8, likewise, includes no new matter as it includes the language of *original* claim 8 as highlighted in bold text herein below:

8. (original) The method of claim 6, wherein, as to a prime number which is less than a value generated by dividing the number of subcarriers by the number of subcarriers included in the cell group, a predetermined number of cells (less than the prime number) are combined to be a plurality of cell groups, a default sequence specified by a cell group number of i is allocated to each cell group, and the position set of pilot subcarriers is allocated to each cell of cell groups according to the subsequent equations, and the **pilot subcarriers are not punctured and transmitted at a position other than the position of subcarriers used for transmission to the mobile station.**  $K=f_{j,c}, 0, f_{j,c}, 1, \dots, f_{j,c}, gN_p-I \mid Z_{li}$   $(k)=v(1c)+(ik) \bmod g / (c) = (:) + ( ) \bmod g /$  where K is a set of subcarriers for transmitting pilot subcarriers, v(k) is a specified pseudo random sequence having values of from 0 to (g-1), and is a set of pilot subcarriers having the cell group number of i and the cell number.

Claim 8 has been further amended to clarify the original claim language without otherwise touching the merits.

Accordingly, all claims in the present application, namely, claims 7-8 are now in condition for allowance. Early and favorable indication of allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S Ham/  
Yoon S. Ham  
Registration No. 45,307

Serial No. 10/577,034

Customer Number: 22429  
1700 Diagonal Road, Suite 300  
Alexandria, Virginia 22314  
(703) 684-1111  
(703) 518-5499 Facsimile  
Date: February 11, 2010  
YSH/KL/fyk